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IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF :
HIDENORI YOSHIDA, ET AL. : EXAMINER: WELTER, R. E.
SERIAL NO: 10/589,396 :
FILED: AUGUST 15, 2006 : GROUP ART UNIT: 1611
FOR: COMPOSITION FOR :
TOOTHBRUSHING :

DECLARATION UNDER 37 C.F.R. § 1.132

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Now comes Hidenori Yoshida who deposes and states:

1. That I am a graduate of Mashiko senior high school and received my associate degree in the year 1986.

2. That I have been employed by Kao Corporation since 1986, for 25 years as a researcher in the field of research and development.

3. That I understand the English language or, at least, that the contents of the Declaration were made clear to me prior to executing the same.

4. That the following experiments were carried out by me or under my direct supervision and control.

5. Dentrifrice compositions according to the formulations shown in Table 1A were prepared and evaluated as described in paragraphs [0046] to [0050] of the specification.

[Table 1A]

	Ex. 1	Comp. Ex. 1'	Comp. Ex. 2'	Comp. Ex. 3	Comp. Ex. 4
Sodium fluoride	0.20	0.20	0.20	0.20	0.20
Polyethylene glycol (PEG600)	5.00	5.00	5.00	5.00	5.00
Glycerin	20.00	20.0	20.00	20.00	20.00
Sorbitol	30.00	30.00	30.00	30.00	30.00
Silica granules (average particle size of 200µm)	2.50	-	2.50	-	2.50
Silica powder	18.50	18.50	18.50	18.50	18.5
Powder cellulose	0.5	-	-	0.5	-
Crystalline cellulose	-	-	-	-	0.5
Xanthan gum	0.40	0.4	0.40	0.40	0.40
Carrageenan	0.60	0.6	0.60	0.60	0.60
DL-Malic acid	2.00	2.00	2.00	2.00	2.00
Sodium lauryl sulfate	1.50	1.50	1.50	1.50	1.50
pH Regulator (adjust pH to 6.0 with NaOH)	q.s.	q.s.	q.s.	q.s.	q.s.
Flavor	1.40	1.40	1.40	1.40	1.40
Purified water	Balance	Balance	Balance	Balance	Balance
Total	100	100	100	100	100

6. Table 2A describes the foaming properties of these compositions.

[Table 2A]

Evaluation of foam quality (N=5)

	Texture of foam	Wateriness of foam	Viscosity of foam	Foaming property
Example 1 (invention)	4	4	5	5
Comparative Example 1'	0	3	1	-1
Comparative Example 2'	-1	-2	0	0
Comparative Example 3	5	4	5	-1
Comparative Example 4	0	-2	0	1

7. As is evident from the results above, the dentifrice composition of the present invention (Example 1) exhibit superior foaming properties and foam quality as compared with the composition comprising **no powder cellulose or granules** (Comp. Ex. 1'), the composition comprising **no powder cellulose** (Comp. Ex. 2'), the composition comprising **crystalline cellulose in place of powder cellulose** (Comp. Ex. 4). The composition of the present invention was particularly excellent in foaming property as compared with an otherwise identical composition comprising **no granules** (Comp. Ex. 3).

8. The undersigned petitioner declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

9. Further deponent saith not.

Customer Number

22850

Tel. (703) 413-3000
Fax. (703) 413-2220
(OSMMN 11/10)

Signature

Isidoro yoshida

Date

June 8, 2011